

Title (en)  
MULTI-AXIS INTERNAL SPINAL FIXATION

Title (de)  
MEHRACHSIGE INTERNE WIRBELSÄULENFIXIERUNG

Title (fr)  
FIXATION VERTÉBRALE INTERNE À AXES MULTIPLES

Publication  
**EP 3691552 A4 20210512 (EN)**

Application  
**EP 18864605 A 20181001**

Priority  
• US 201762566991 P 20171002  
• US 2018053790 W 20181001

Abstract (en)  
[origin: US2019099205A1] According to an embodiment, a spinal implant having vertical and horizontal plates with through-holes for receiving a pre-configured square bolt is disclosed. The embodiments of the invention include very long square bolts that can accommodate the height of at least of two vertically stacked plates. When used to reduce spondylolisthesis, a portion of the square bolt can be broken after the desired alignment of the listhetic vertebrae is observed. The square bolts also allow extension of vertical plates above or below an existing fusion by placement of an extension vertical plate on to the previous one without removing it. This makes extension of instrumentation extremely easy.

IPC 8 full level  
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**A61B 17/7007** (2013.01 - EP GB US); **A61B 17/7041** (2013.01 - EP GB US); **A61B 17/7058** (2013.01 - EP GB US);  
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Citation (search report)  
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• [Y] US 6280445 B1 20010828 - MORRISON MATTHEW M [US], et al  
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**US 10835293 B2 20201117**; **US 2019099205 A1 20190404**; EP 3691552 A1 20200812; EP 3691552 A4 20210512; EP 3691552 B1 20230830;  
GB 202006502 D0 20200617; GB 2581099 A 20200805; JP 2020535938 A 20201210; JP 6915930 B2 20210811; MX 2020004215 A 20201028;  
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